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(71) Applicant (for all designated States except US): NOKIA
CORPORATION [FI/FI]; Keilalahdentie 4, FIN-02150
Espoo (FI).

(72) Inventors; and

(75) Inventors/Applicants (for US only): HANSEN, Roy,
Skovgaard [DK/DK]; Kai Lippmanns Alle, DK-2791 Dra-
goer (DK). BJOERN-JOERGENSEN, Peter [DK/DK];
Egernvaenget 15, DK-4000 Roskilde (DK).

(74) Agents: GEARY, Stuart et al.; Venner, Shipley LLP, 20
Little Britain, London EC1A 7DH (GB).

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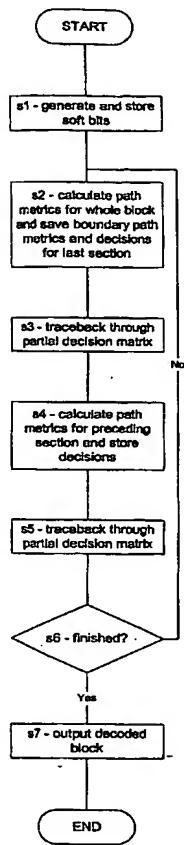
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(54) Title: LIST OUTPUT VITERBI DECODER WITH BLOCKWISE ACS AND TRACEBACK

(57) Abstract: A Viterbi decoder for decoding convolutionally coded data blocks with a path memory region (314) used for storing a decision matrix having the length of one section only the data block. In a first ACS recursion, path metrics at boundaries of the sections of a data block are stored in a path metric memory. A second ACS recursion starts from the stored path metrics upon detection of an error. Hence, in a list output Viterbi decoder, the second ACS recursion can be limited to sections of the data blocks. Traceback is performed upon error detection, starting from an unreliable decision stored during a first decoding recursion. Hence, traceback can be limited to a number of data block sections.



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